

FORM PTO-1462A and B (Modified) PATENT & TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT		APPLICATION NO.: 09/997,999	ATTY. DOCKET NO.: N00410.70000.US
		FILING DATE: November 30, 2001	CONFIRMATION NO.: 3909
		APPLICANT: Hancock et al.	
		GROUP ART UNIT: 1714	EXAMINER: Not Yet Assigned
Sheet	1	of	1

U.S. PATENT DOCUMENTS

Examiner's Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication or of issue of Cited Document MM-DD-YYYY
		Number	Kind Code		

FOREIGN PATENT DOCUMENTS

Examiner's Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document (not necessary)	Date of Publication of Cited Document MM-DD-YYYY	Translation (Y/N)
		Office/Country	Number	Kind Code			

OTHER ART — NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS) title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, relevant page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)	
QC		GAYLORD et al., "DNA detection using water-soluble conjugated polymers and peptide nucleic acid probes," PNAS, August 20, 2002, Vol. 99, No. 17, pp. 10954-10957		
		KIM et al., "Ultrafast Energy-Transfer Dynamics between Block Copolymer and π -Conjugated Polymer Chains in Blended Polymeric Systems," Chemistry of Materials, Vol. 13(8), pp. 266-2674 (2001)		
		KRAFT et al., "Electroluminescent Conjugated Polymers — Seeing Polymers in a New Light," Agnew. Chem. Int. Ed. 1998, 37, 402-428		
		KUSHON et al., "Detection of DNA Hybridization via Fluorescent Polymer Superquenching," The ACS Journal of Surfaces and Colloids, October 1, 2002, Volume 18, Number 20		
		PENG et al., "Efficient Light Harvesting by Sequential Energy Transfer across Aggregates in Polymers of Rigid Conjugational Segments with Short Aliphatic Linkages," J. Am. Chem. Soc., 2001, Vol. 123, pp. 11388-11394		
		TAN et al., "Photophysics, aggregation and amplified quenching of a water-soluble poly(phenylene ethynylene)," Chem. Commun., 2002, pp. 446-447		
QC		WALTERS et al., "Photophysical Consequences of Conformation and Aggregation in Dilute Solutions of π -Conjugated Oligomers," Langmuir, 1999, Vol. 15, pp. 5676-5680		

EXAMINER <i>Qclh</i>	DATE CONSIDERED <i>8/04</i>
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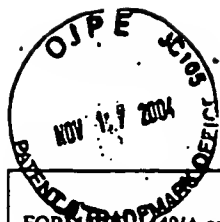
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*a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. __, filed __, and relied upon for an earlier filing date under 35 U.S.C. 120 (continuation, continuation-in-part, and divisional applications).

FORM PTO-1449/A and B (modified PTO/SB/08)		APPLICATION NO.: 09/997,999	ATTY. DOCKET NO.: N0410.70000US00
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		FILING DATE: November 30, 2001	CONFIRMATION NO.: 3909
		APPLICANT: Lawrence Hancock, et al.	
Sheet 12 of 3	GROUP ART UNIT: 1714	EXAMINER: E. J. Cain	

NON PATENT LITERATURE DOCUMENTS

Examiner's Initials	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Translation (Y/N)
EC		Jones, R.M., et al., "Tuning of Superquenching in Layered and Mixed Fluorescent Polyelectrolytes," <i>JACS</i> , Vol. 123, pp. 6726-6727 (2001).	
		Jones, R.M., et al., "Building highly sensitive dye assemblies for biosensing from molecular building blocks," <i>PNAS</i> , Vol. 98, No. 26, pp. 14769-14772 (2001).	
		Kumaraswamy, S., et al., "Fluorescent-conjugated polymer superquenching facilitates highly sensitive detection of proteases," <i>PNAS</i> , Vol. 101, pp. 7511-7515 (2004).	
		Kushon, S.A., et al., "Detection of Single Nucleotide Mismatches via Fluorescent Polymer Superquenching," <i>Langmuir</i> , Vol. 19, 6456-6464 (2003)..	
		Liu, B, et al., "Homogeneous Fluorescence-Based DNA Detection with Water-Soluble Conjugated Polymers," <i>Chem Mater</i> , Vol. 16, 4467-4476 (2004).	
		Liu, B, et al., "Optimization of the Molecular Orbital Energies of Conjugated Polymers for Optical Amplification of Fluorescent Sensors," <i>JACS</i> , Vol. 128, pp. 1188-1196 (2006).	
		Liu, B., et al., "Methods for strand-specific DNA detection with cationic conjugated polymers suitable for incorporation into DNA chips and microarrays," <i>PNAS</i> , Vol. 102, No. 3, pp. 589-593 (2005).	
		Lu, L., et al., "Superquenching in Cyanine Pendant Poly(L-lysine) Dyes: Dependence on Molecular Weight, Solvent, and Aggregation," <i>JACS</i> , Vol. 124, No. 3, pp. 483-488 (2002).	
		Lu, L., et al., "Surface-Enhanced Superquenching of Cyanine Dyes as J-Aggregates on Lapointe Clay Nanoparticles," <i>Langmuir</i> , Vol. 18, pp. 7706-7713 (2002).	
		Lu, L., et al., "Biocidal Activity of a Light-Absorbing Fluorescent Conjugated Polyelectrolyte," <i>Langmuir</i> , Vol. 21, pp. 10154-10159 (2005).	
		Lu, L., et al., "Cyanine Pendant" Polymers on Nanoparticles and in Solution; Superquenching and Sensing Applications," <i>Polym Mat Sci Eng.</i> (2002)	
		Lu, L., et al., "Self-Assembled "Polymers" on Nanoparticles: Superquenching and Sensing Applications" <i>Polym Mat Sci Eng.</i> (2002)	
		Rininsland, F., et al., "High-throughput kinase assays with protein substrates using fluorescent polymer superquenching," <i>BMC Biotech</i> , Vol. 5, No. 16, pp. 1-6 (2005).	
		Rininsland, F., et al., "Metal ion-mediated polymer superquenching for highly sensitive detection of kinase and phosphatase activities," <i>PNAS</i> , Vol. 101, No. 43, pp. 15295-15300 (2004).	
		Wang, S., et al., "Fluorescein Provides a Resonance Gate for FRET from Conjugated Polymers to DNA Intercalated Dyes," <i>JACS</i> , Vol. 126, pp. 5446-5451 (2004).	
		Wang, D., et al., "Photoluminescence Quenching of Conjugated Macromolecules by Bipyridinium Derivatives in Aqueous Media: Charge Dependence," <i>Langmuir</i> , Vol. 17, pp. 1262-1266 (2001).	
		Wang, J., et al., "Photoluminescence of Water-Soluble Conjugated Polymers: Origin of Enhanced Quenching by Charge Transfer," <i>Macromolecules</i> , Vol. 33, pp. 5153-5158 (2000).	
		Wang, D., et al., "Biosensors from conjugated polyelectrolyte complexes," <i>PNAS</i> , Vol. 99, No. 1, pp. 49-53 (2002).	
		Whitten, D., et al., "From Superquenching to Biodetection: Building Sensors Based on Fluorescent Polyelectrolytes," <i>Optical Sensors and Switches</i> , p.189-208 (2001).	
	EC		Xia, W., et al., "Applications of Fluorescent Polymer Superquenching to High Throughput Screening Assays for Protein Kinases," Vol. 2, No. 2, pp. 183-192 (2004).
		Xia, W., et al., "A High-Throughput Screening Assay for Kinases and Phosphatases via Metal Ion-Mediated Fluorescent Polymer Superquenching," <i>Am Lab</i> , pp. 15-19 (2004).	



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EC		Langeveld-Voss, B.M.W. et al., "Circular Dichroism and Circular Polarization of Photoluminescence of Highly Ordered Poly {3,4-di[(S)-2-methylbutoxy]thiophene}," <i>J. Am. Chem. Soc.</i> , 1996 118:4908-4909, American Chemical Society		
		Levitsky, I.A. et al., "Mass and Energy Transport in Conjugated Polymer Langmuir-Blodgett Films: Conductivity, Fluorescence, and UV-Vis Studies," <i>Macromolecules</i> , 2001 34:2315-2319, American Chemical Society		
		McQuade, D.T. et al., "Conjugated Polymer-Based Chemical Sensors," <i>Chem. Rev.</i> , 2000 100:2537-2574, American Chemical Society		
		McQuade, D.T. et al., "Two-Dimensional Conjugated Polymer Assemblies: Interchain Spacing for Control of Photophysics," <i>J. Am. Chem. Soc.</i> , 2000 122:5885-5886, American Chemical Society		
		Mitschke, U. et al., "The electroluminescence of organic materials," <i>J. Mater. Chem.</i> , 2000 10:1471-1507, The Royal Society of Chemistry		
		Moon, J.H. et al., "Capture and detection of a quencher labeled oligonucleotide by poly(phenylene ethylene) particles," <i>Chem. Commun.</i> , 2003 104-105, Royal Society of Chemistry		
		Norvez S. et al., "Epitaxygens: mesomorphic properties of triptycene derivatives," <i>Liquid Crystals</i> , May 1993 14:1389-1395, Taylor & Francis Ltd.		
		Oda M. et al., "Circularly-Polarized Electroluminescence from Liquid-Crystalline Chiral Polyfluorenes," <i>Adv. Mater.</i> , 2000 12:362-365, Wiley-VCH Verlag GmbH, Germany		
		Oda M. et al., "Chiroptical properties of chiral-substituted polyfluorenes," <i>Synthetic Materials</i> , 2000 111-112:575-577, Elsevier Science S.A.		
		Peeters, E. et al., "Circularly-Polarized Electroluminescence from a Polymer Light-Emitting Diode," <i>J. Am. Chem. Soc.</i> , 1997 119:9909-9910, American Chemical Society		
		Yang, J. et al., "Porous Shape Persistent Fluorescent Polymer Films: An Approach to TNT Sensory Materials," <i>J. Am. Chem. Soc.</i> , 1998 120:5321-5322, American Chemical Society		
		Yang, J. et al., "Anomalous crystal packing of ipitycene secondary diamides leading to novel chain and channel networks," <i>Tetrahedron Letters</i> , 2000 41:7911-7915, Elsevier Science Ltd.		
		Zhang, S. et al., "Fluorescent Detection of Chemical Warfare Agents: Functional Group Specific Ratiometric Chemosensors," <i>J. Am. Chem. Soc.</i> , 125:3420, (March 2003)		
		Zhang, S. et al., Supplemental Information at http://pubs.acs.org/subscribe/journals/jacsat/supinfo/ja029265z/ja029265zsi20030125_030500.pdf (March 2003)		
		"Institute for Soldier Nanotechnologies," slides (http://web.mit.edu/isn/industryday/index/html) (2003)		
EC		International Search Report for International Application Serial No. PCT/US2002/38321 (published as International Publication No. WO 2003/048226), issued by the ISA on December 12, 2003		

EXAMINER: <i>Qeh</i>	DATE CONSIDERED: 2/05
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[NOTE - The Office hereby waives the requirement under 37 CFR 1.98 (a)(2)(i) for submitting a copy of each cited U.S. patent and each U.S. patent application publication for all U.S. national patent applications filed after June 30, 2003 and for all international applications that have entered the national stage under 35 USC 371 after June 30, 2003. See 37 CFR 1.491(b). For all patent applications filed on or before June 30, 2003, copies of cited U.S. patents and patent application publications are still required unless an eIDS is filed. Copies of all other patent(s), publication(s), or other information listed must still be provided, even if it was previously submitted to, or cited by, the U.S. Patent Office in an earlier application, unless the earlier application is identified by the IDS and is relied upon for an earlier filing date under 35 U.S.C. §120, and the copy was provided in the earlier application.]